Algebraic Expressions and Equations

Algebraic Expression

a mathematical phrase of variables, numbers and mathematical operations

$$2x + 6 \qquad a - 6$$

$$2s^2 \div 6$$

$$4$$

Algebraic Equation

a statement that two expressions are equal

$$2x + 6 \; = \; a - 6$$

$$4 \; = \; 2s^2 \div 6$$

Classify the following as an Expression or an Equation.

$$2x + 3 = -12$$

$$n - 2$$

$$2l + 2w$$

$$P = 2l + 2w$$

$$a^2 + b^2 = c^2$$

$$-8y$$

Solutions for Expressions and Equations
A solutions is any value or values that make our statements true.

Expression   Equation

$$2x + 5$$ $$2x + 5 = 9 \quad x = 2$$

Algebraic Expression
a mathematical phrase of variables, numbers and mathematical operations

Algebraic Equation
a statement that two expressions are equal